

CLOSING

GPRS, Inc. has been in business since 2001, specializing in underground storage tank location, concrete scanning, utility locating, and shallow void detection for projects throughout the United States. I encourage you to visit our website (www.gprsinc.com) and contact any of the numerous references listed.

GPRS appreciates the opportunity to offer our services, and we look forward to continuing to work with you on future projects. Please feel free to contact us for additional information or with any questions you may have regarding this report.

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Project Manager | Chicago



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Exhibit 3

Christine Kozuch

From: Edward Garske
Sent: Thursday, October 31, 2019 6:27 PM
To: Edward Garske
Subject: FW: 3350 W 131st Street, Alsip
Attachments: Excav1.jpg; Excav1b.jpg; Excav1c.jpg; Excav1d.jpg; Excav2.jpg; Excav2b.jpg; Excav2c.jpg; Excav2d.jpg; Excav3.jpg; Excav3b.jpg; Excav3c.jpg

From: Bruce Shabino <bshabino@carlsonenv.com>
Sent: Thursday, October 31, 2019 6:10 PM
To: Edward Garske <egarske@carlsonenv.com>
Subject: RE: 3350 W 131st Street, Alsip

Photos are attached. Let me know if you need anything else.

Excavation #1, on the southern end, had significant water infiltration due to the amount of near surface gravel fill saturated with water from the recent rain and snow. At a depth of around 3' there were two 1" steel conduits and slightly deeper a larger diameter (maybe 6-8") steel pipe. All three ran at a diagonal through the excavation. A few feet east of these pipes, another pipe (diameter unknown as it appears to be partially embedded in concrete) ran in a north-south direction. Excavating on the north end of the pipes, we entered native soil at around 4' bgs. No evidence of contamination or drums.

Excavation #2 had a few pieces of scrap metal (a mangled piece of steel, a roughly 2" gate valve, and a small piece of steel plate) in the top 2' of soil. No evidence of contamination or drums. The excavation ceased at approximately 3.5' due to reaching undisturbed native soil.

Excavation #3 had one small scrap of metal in the top 2' of soil. No evidence of contamination or drums. The excavation ceased at approximately 3.5' due to reaching undisturbed native soil.



Photograph 1: View of Excavation 1.



Photograph 2: Additional view of Excavation 1.



Photograph 3: Additional view of Excavation 1.



Photograph 4: Additional view of Excavation 1.



Photograph 5: View of Excavation 2.



Photograph 6: Additional view of Excavation 2.



Photograph 7: Additional view of Excavation 2.



Photograph 8: View from Excavation 2.



Photograph 9: View from Excavation 3.



Photograph 10: View of Excavation 3.



Photograph 11: Additional view from Excavation 3.

Equipment Used:

400 MHz GPR Antenna. The antenna is mounted in a stroller frame which rolls over the surface. The surface needs to be reasonably smooth and unobstructed in order to obtain readable scans. Obstructions such as curbs, landscaping, and vegetation will limit the feasibility of GPR. The data is displayed on a screen and marked in the field in real time. GPR works by sending pulses of energy into a material and recording the strength and the time required for the return of the reflected signal. Reflections are produced when the energy pulses enter into a material with different electrical properties from the material it left. The strength of the reflection is determined by the contrast in signal speed between the two materials. The total depth achieved can be as much as 8' or more with this antenna but can vary widely depending on the conductivity of the materials. Conductive soil types such as clay may limit our depths to 3' or less. As depth increases, targets must be larger in order to be detected and nonmetallic targets can be especially difficult to locate. Depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: [Link](#)

GPS. This handheld GPS unit offers accuracy down to 4 inches, however, the accuracy will depend on the satellite environment and obstructions and should not be considered to be survey-grade. Features can be collected as points, lines, or areas and then exported into Google Earth or overlaid on a CAD drawing. For more information, please visit: [Link](#)

Calibration:

400 MHz GPR Antenna. Initial GPR scans were collected in order to evaluate the data and calibrate the equipment. Based on these findings, a scanning strategy is formed, typically consisting of scanning the entire area in a grid with 3'-5' scan spacing in order to locate any potential anomalies that may remain at the site. The GPR data is interpreted in real time and anomalies in the data are located and marked on the surface along with their depths using spray paint, pin flags, etc. Depths are dependent on the dielectric of the materials being scanned so depth accuracy can vary throughout a site. Relevant scan examples were saved and will be provided in this report.



geode™








SUB-METER GPS RECEIVER

Get Real-Time, Sub-Meter Accuracy

Looking for a simple sub-meter GNSS solution at an affordable price? With the Geode, you can easily collect real-time, sub-meter GNSS data without the huge price tag or complexity of other precision receivers. Designed with versatility in mind, the Geode works with a wide range of Windows®, Windows Mobile, and Android® devices to fit your needs exactly and is especially useful for bring-your-own-device workplaces. Take the Geode with you mounted on a pole, in a pack, or held in your hand to collect real-time sub-meter GNSS data in harsh environments, using almost any handheld device.



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-  **SUB-METER ACCURACY** – Collect precision GNSS data with an existing device
-  **REAL-TIME DATA** – Multiple correction sources provide precise, real-time data
-  **AFFORDABLE** – Professional accuracy at a budget-friendly price
-  **COMPACT SIZE** – Small and lightweight for all-day use
-  **OPEN INTERFACE** – Works with Juniper Systems' handhelds or your own device
-  **SIMPLE TO USE** – Intuitive and easy operation, one-button simplicity
-  **ALL-DAY BATTERY LIFE** – Ideal for long work days

131STREET000057

Geode Specifications

RECEIVER

- Receiver Type: GNSS single frequency with carrier tracking
- Signals Received: GPS, SBAS, GLONASS (optional)
- Channels: 372
- SBAS Tracking: 3-channel parallel tracking
- Update Rate: 1 Hz standard, 2–10 Hz (optional)

ACCURACY

- SBAS (WAAS): <30 cm Horizontal RMS (<60 cm 2DRMS)¹
- Cold Start: <60 sec typical (no almanac)
- Reacquisition: <1 sec

COMMUNICATIONS

- Bluetooth® 4.0 (Serial Port Profile)
- Bluetooth Range: Class 1 Long Range
- Ports: Micro USB Client 2.0; Serial RS232C DB-9 (optional)
- Serial Baud Rates: 4800–115200

RECEIVER PROTOCOLS

- Data I/O Protocol: NMEA 0183, Raw Binary (proprietary), RTCM2
- Other: 1PPS Timing Output, Speed Pulse, Event Marker Input (optional)

POWER

- Input Voltage: 5VDC @ 2A USB
- Power Consumption: 1.7–2 W nominal
- Overtime Technology™ Battery: 3.65V 5300 mAh Li-ion (~10 hours)
- Charging Time: ~4 hours

ANTENNA

- Internal precision multi-GNSS with integrated ground plane
- External Antenna Port: MCX type, 50 ohm 15VDC @ 20 mA maximum

¹: GNSS accuracy subject to observation conditions, multipath environment, number of satellites in view, satellite geometry, and ionospheric activity.

JUNIPER RUGGED™

- Operating Temp: -20 C to +60 C
- Storage Temp: -30 C to +60 C
- Enclosure Rating: IP68
- Dimensions: 4.4 x 4.4 x 1.7 inch (111 x 111 x 43 mm)
- Weight: 0.8 lb (360 g)
- Mount: ¼ x 20 camera stud and #6-32 AMPS (diag.)

RECEIVER UPGRADES

- 2 Hz to 10 Hz update rate
- GLONASS upgrade

SOFTWARE

- GeodeConnect™: Provides configuration, communications setup, and receiver settings
- Available for:
 - Windows Embedded Handheld 6.5
 - Android 4.x and above
 - Windows PC (8/10)

INCLUDED ACCESSORIES

- 5VDC USB Universal Charger
- USB Data/Charging Cable (USB-A to Micro-B)
- 5/8 x 11 Pole Mount Adapter

OPTIONAL ACCESSORIES

- Field Carrying Case
- Smartphone Adapter Tray
- External Patch Antenna
- Antenna Cable

MODELS

- Geode GPS, 1 Hz
- Geode GPS with 9-pin serial port, 1 Hz
- Geode GPS with GLONASS, 1 Hz
- Geode GPS with GLONASS and 9-pin serial port, 1 Hz



Contact Juniper Systems today for a quote

MKTG0030

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UtilityScan[®]

The UtilityScan[®] provides a rich feature set that redefines the level of performance available in a low cost utility locating system. Its compact size makes it extremely portable and easy to maneuver in tight survey areas. The simple operation is ideally suited to meet the needs of service providers, engineering contractors and state and local municipalities. Best of all, the breakthrough technology designed into UtilityScan results in high quality data sets that are second to none.

The UtilityScan Advantage

Reliable mark outs, paper records, and as-builts on buried utilities are rare. Damaging utilities can be costly, leading to cost overruns, project delays, and safety concerns. Recent specifications from ASCE and PAS 128, require that contractors and municipalities have accurate and up-to-date information on active and abandoned utilities. UtilityScan can quickly identify the location and depth of service utilities such as gas, communications, and sewer lines – as well as other metallic and nonmetallic targets including underground storage tanks and PVC pipes.



See our website for more information and detailed specifications: www.geophysical.com

MAX DEPTH

10 m (35 feet)

ANTENNA FREQUENCY

350 MHz

WEIGHT

15.4 kg (34 pounds)

STORAGE CAPACITY

64 GB

OPTIONAL SOFTWARE

RADAN 7 for
UtilityScan,
RADAN 7

ACCESSORIES

Transit case, Battery
booster kit, Sunshade,
Model 656 rugged cart

131STREET000059